

Mountain Valley Pipeline, LLC

v.

Easements to Construct, etc., et al.

Exhibit 45 to Complaint

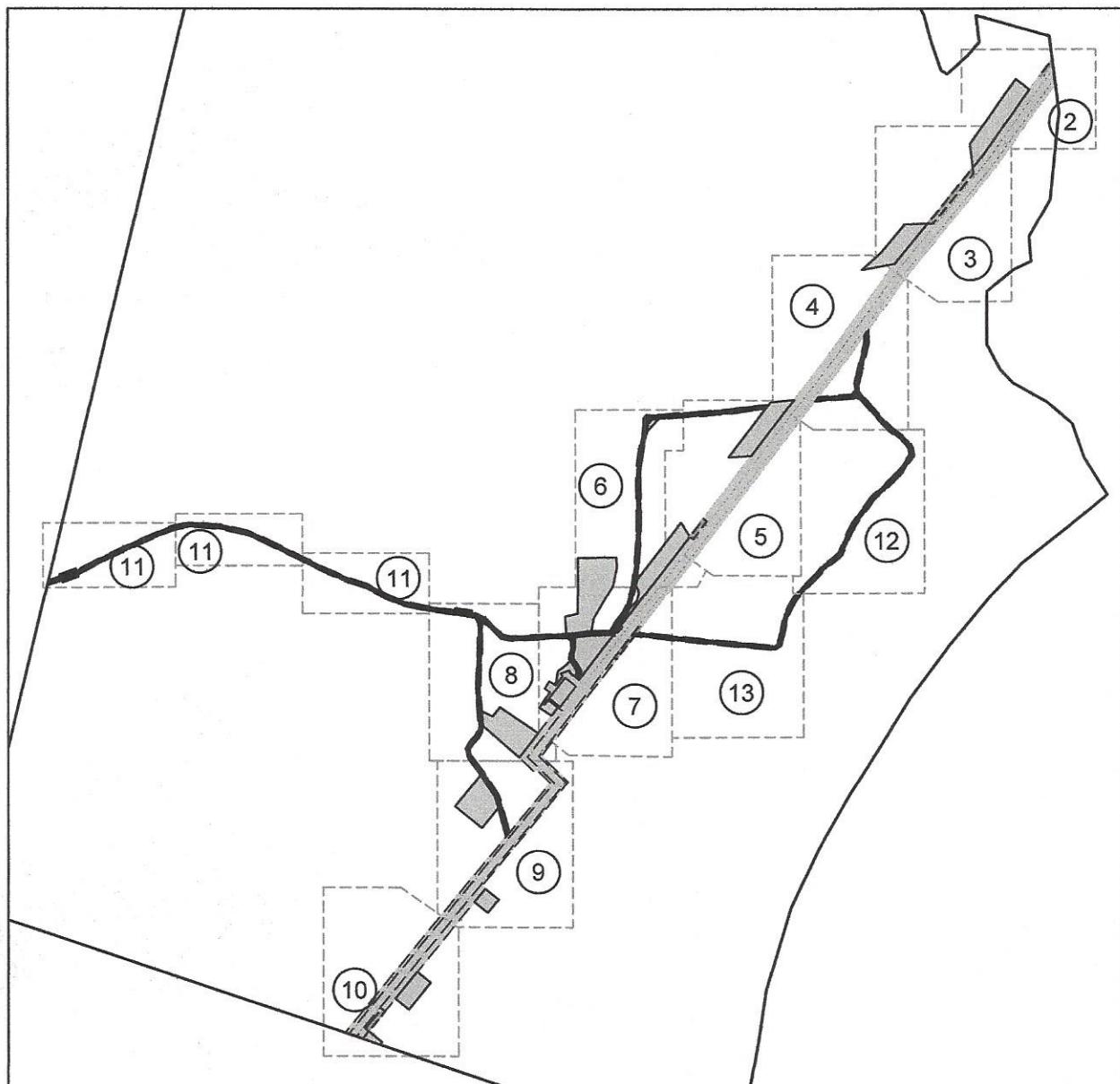
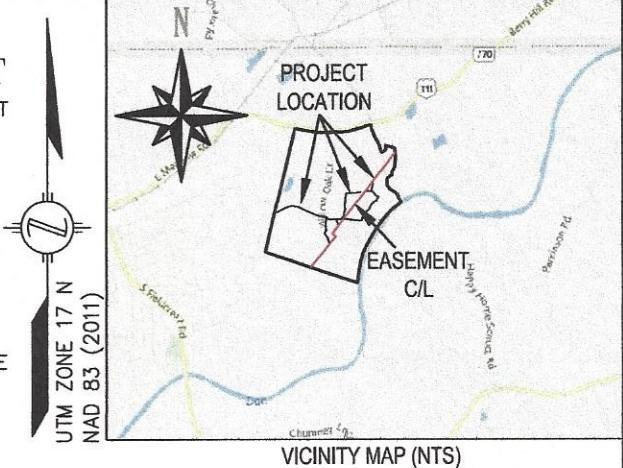
Maps of MVP Parcel Nos. NC-RO-006.000 and NC-RO-006.001 AR

EXHIBIT A

INDEX SHEET

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 1077, PAGE 1830
5. PARCEL ID: 164555
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO UTM ZONE 17 N NAD 83 (2011).
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.



SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.
SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

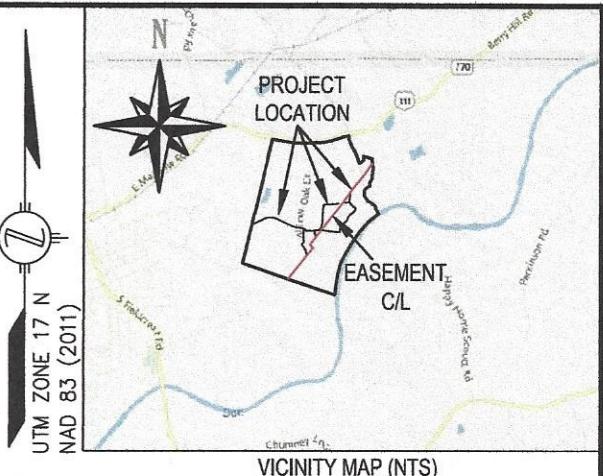
 <i>JL</i>		EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
		Pipeline Easement in Property of WILLOW OAKS PLANTATION, LLC			
NC-RO-006.000 DEED BOOK 1077, PAGE 1830		NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
Drawn By:	Chk'd By:	Appd By:	TRC Proj. No.:	Scale:	
JCL			300423	N.T.S.	
Drawn Date:	Chkd Date:	Appd Date:	TRC Proj. No.:	Scale:	
10/3/2018		DD	TWK	MVP Proj. No.	1 OF 17
REVISIONS					
1	5/6/2020		GENERAL REVISIONS		
2	6/16/2020	DKD	ACCESS ROAD NAME		
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S		
No.	Date	Rev By	Description		
			Checked		

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

EXHIBIT A

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
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9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.



NC-RO-006.000

WILLOW OAKS PLANTATION, LLC

DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

ADDITIONAL TEMPORARY WORKSPACE
 $0.07 \pm$ ACRES
 $2,867 \pm$ SQ. FEET

TEMPORARY WORKSPACE
 $3.24 \pm$ ACRES
 $141,073 \pm$ SQ. FEET

ADDITIONAL TEMPORARY WORKSPACE
 $1.16 \pm$ ACRES
 $50,735 \pm$ SQ. FEET

NGS MONUMENT

STA 071 0154 AZ MK

N:13,297,578.39

E:2,077,443.38

CSF:0.99979352

S35°24'47"W

620.10' GRID

S51°06'02"W

50,138.28' GRID

POINT OF BEGINNING
N: 13,265,588.34
E: 2,038,064.02

NGS MONUMENT
STA 071 0154
N:13,297,073.01
E:2,077,084.05
CSF:0.99979281

PROPOSED EASEMENT
 $8.38 \pm$ ACRES
 $364,836 \pm$ SQ. FEET

NC-RO-005.000

N/F
CIRCLE BAR D RANCH, LLC, A
NORTH CAROLINA LIMITED
LIABILITY COMPANY
DEED BOOK 1302, PAGE 42-46

LEGEND

- (○) NGS MONUMENT
- (○EIP) EXISTING IRON PIPE OR PIN
- (○IPS) IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE

PERMANENT ACCESS ROAD

TEMPORARY ACCESS ROAD

PERMANENT EASEMENT

TEMPORARY WORKSPACE

ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)

POSSIBLE TEMPORARY WORKSPACE

TEMPORARY WORKSPACE
 $1.37 \pm$ ACRES
 $59,528 \pm$ SQ. FEET

WILLOW OAKS PLANTATION, LLC

	sq. ft.	acres
AREA OF PROPOSED EASEMENT:	$364,836 \pm$	8.38 ACRES
AREA OF PROPOSED INTERCONNECT SITE:	$12,000 \pm$	0.28 ACRES
AREA OF TEMPORARY WORKSPACE:	$307,971 \pm$	7.07 ACRES
AREA OF ADDITIONAL TEMPORARY WORKSPACE:	$411,161 \pm$	9.44 ACRES
AREA OF PERMANENT ACCESS ROAD:	$88,059 \pm$	2.02 ACRES
AREA OF TEMPORARY ACCESS ROAD:	$172,519 \pm$	3.96 ACRES
AREA OF POSSIBLE TEMPORARY WORKSPACE:	$23,506 \pm$	0.54 ACRES

	feet	rods
CENTERLINE OF EASEMENT:	$7,095 \pm$	429.99±
CENTERLINE OF TEMPORARY ACCESS ROADS:	$6,859 \pm$	415.69±
CENTERLINE OF PERMANENT ACCESS ROADS:	$3,521 \pm$	213.39±

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

Mountain Valley PIPELINE LLC

PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000

DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By:	Chkd By:	Appd By:	TRC Proj. No.:	Scale:
JCL			300423	1"=100'
Drawn Date:				MVP Proj. No.
10/3/2018				
	DD	TWK	2 OF 17	

100 50 0 100

GRAPHIC SCALE IN FEET

REVISIONS

1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TKW
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TKW
No.	Date	Rev By	Description	Checked

I, Thomas Warner Kimmel, certify that this plat is of a PERMANENT EASEMENT for a public utility as defined in GS 62-3; that this plat was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in deed book 1077, page 1830; that the ratio of precision as calculated is 1:10,000+; that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks at the Class "A" accuracy classification (95% confidence) using RTK/VRS networks and traditional traverses.

That this plat meets the requirements of G.S. 47-30 section (f)(11)(c).

This 13th day of October, 2020

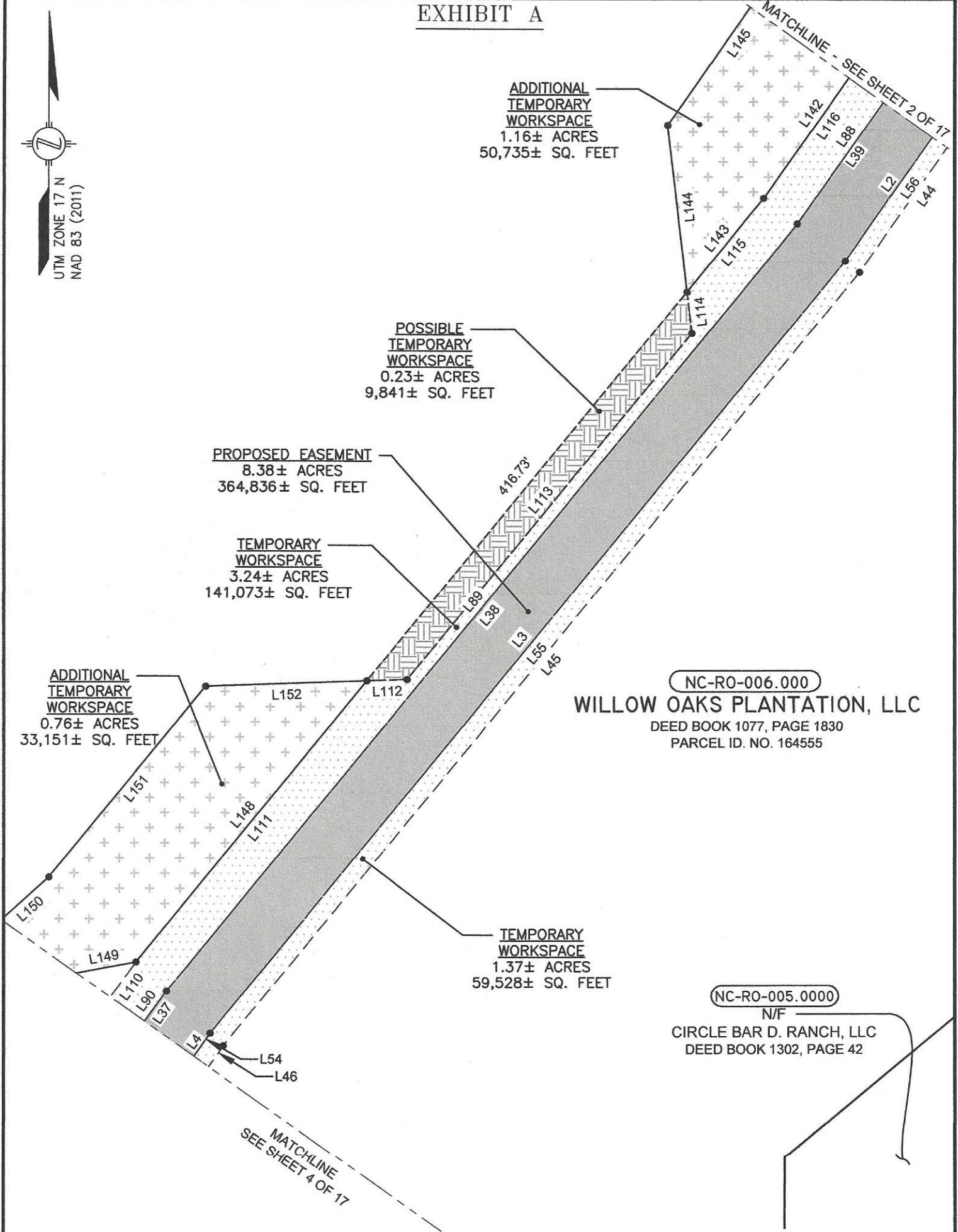
THOMAS WARNER KIMMEL, PLS

LAND OWNER INITIALS: _____
DATE: _____

TRC ENGINEERS, INC
2200 LIBERTY AVENUE,
SUITE 100
PITTSBURGH, PA 15222
PH: (724) 749-8572 tkimmel@trcsolutions.com
NC CORPORATE LICENSE No. F-0591



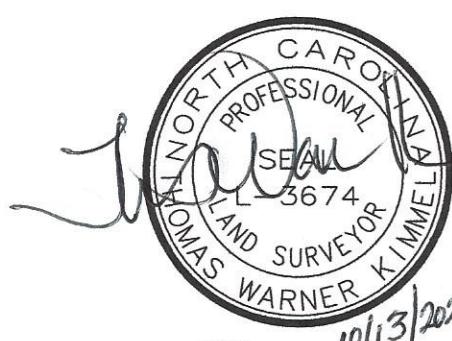
EXHIBIT A



LEGEND

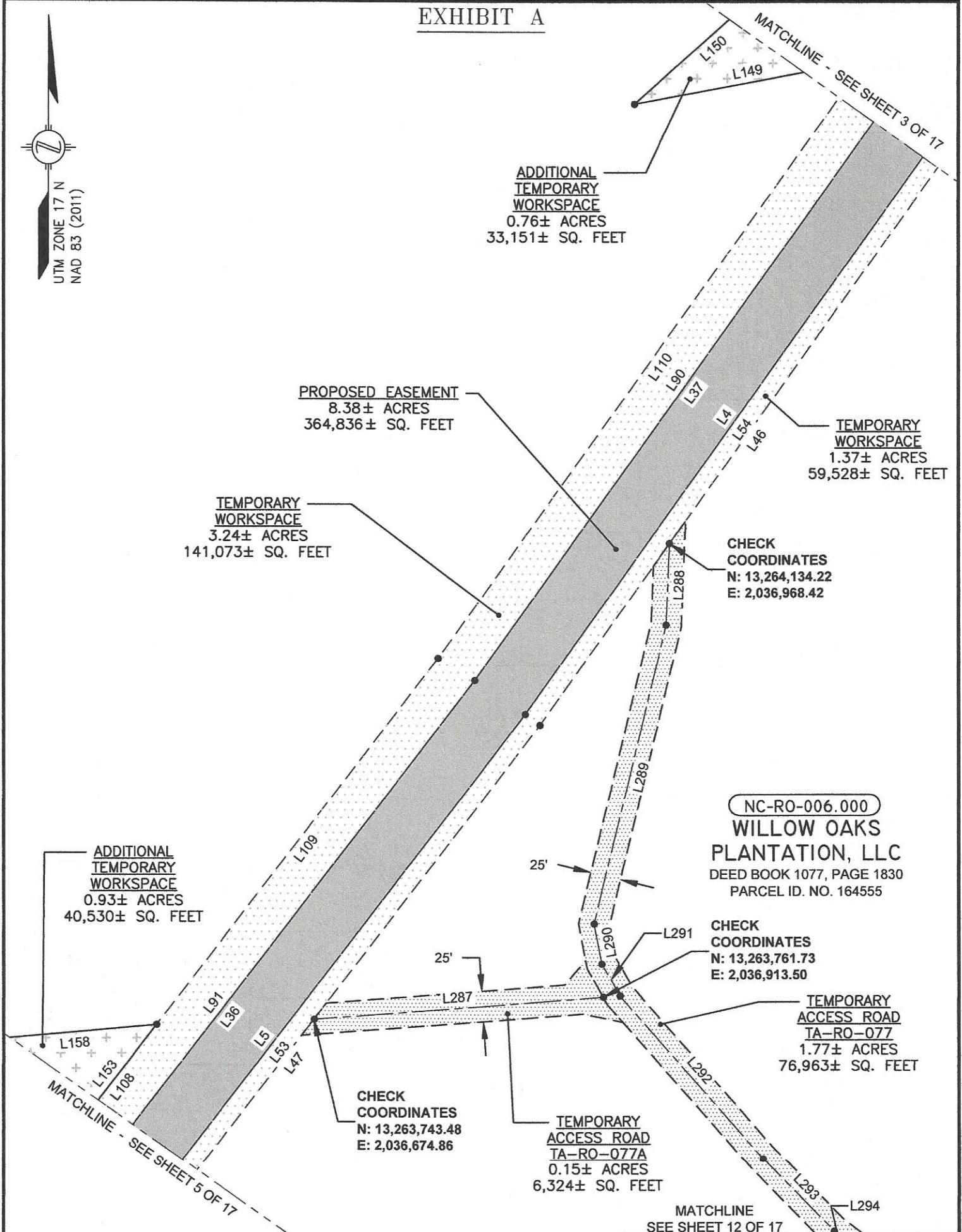
- (○) NGS MONUMENT
- (○EIP) EXISTING IRON PIPE OR PIN
- (○IPS) IRON PIN SET
- CP COMPUTED POINT
- Line NOT TO SCALE
- [Solid Gray Box] PERMANENT ACCESS ROAD
- [Dotted Box] TEMPORARY ACCESS ROAD
- [Solid Gray Box] PERMANENT EASEMENT
- [Dotted Box] TEMPORARY WORKSPACE
- [Crosses Box] ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- [Hatched Box] POSSIBLE TEMPORARY WORKSPACE

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.



EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
 Mountain Valley PIPELINE LLC				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.000 DEED BOOK 1077, PAGE 1830				
NC-RO-006.000				
Drawn By:	Chk'd By:	App'd By:	IRC Proj. No.	Scale:
JCL			300423	1"=100'
Drawn Date:			Sheet:	MVP Proj. No.
10/3/2018	DD	TWK	3 OF 17	
100 50 0 100				
GRAPHIC SCALE IN FEET				
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

EXHIBIT A



LEGEND

- (○) NGS MONUMENT
- (○EIP) EXISTING IRON PIPE OR PIN
- (○IPS) IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- [Solid Gray Box] PERMANENT ACCESS ROAD
- [Dotted Gray Box] TEMPORARY ACCESS ROAD
- [Solid Gray Box] PERMANENT EASEMENT
- [Dotted Gray Box] TEMPORARY WORKSPACE
- [Dotted Box with +] ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- [Icon of a building] POSSIBLE TEMPORARY WORKSPACE

LAND OWNER INITIALS: _____

DATE: _____



EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

Mountain Valley PIPELINE LLC

Pipeline Easement in Property of
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
Deed Book 1077, Page 1830

NC-RO-006.000

Drawn By:	Chkd By:	Appd By:	IRC Proj. No.:	Scale:
JCL			300423	1"=100'
Drawn Date:			Sheet:	
10/3/2018	DD	TWK	4 OF 17	MVP Proj. No.

100 50 0 100

GRAPHIC SCALE IN FEET

R E V I S I O N S

No.	Date	Rev By	Description	Checked
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A

UTM ZONE 17 N
NAD 83 (2011)

SEE SHEET 6 OF 17
MATCHLINE

TEMPORARY ACCESS
ROAD
TA-RO-075
1.28± ACRES
55,818± SQ. FEET

ADDITIONAL —
TEMPORARY
WORKSPACE
0.93± ACRES
40,530± SQ. FEET

PROPOSED EASEMENT
8.38 ± ACRES
364,836 ± SQ. FEET

TEMPORARY —
WORKSPACE

POSSIBLE —
TEMPORARY
WORKSPACE
0.08± ACRES
3,301± SQ. FEET

ADDITIONAL
TEMPORARY
WORKSPACE
1.68± ACRES
73,311± SQ. FEET

MATCHLINE
SEE SHEET 6 OF 13

CHECK
COORDINATES
N: 13,263,697.60
E: 2,036,386.68

SEE SHEET 4 OF 17
MATCHLINE

NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID NO. 164555

LEGEND

-  NGS MONUMENT
 EIP EXISTING IRON PIPE
 OIPS IRON PIN SET
 CP COMPUTED POINT
--> LINE NOT TO SCALE



SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

 Mountain Valley
PIPELINE LLC

**Pipeline Easement in Property of
WILLOW OAKS PLANTATION, LLC**

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By:	Chk'd By:	Appd By:	IRC Proj. No.:	Scale:
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Drawn Date: 10/3/2018		DD	TWK	Sheet: 5 OF 17 MVP Proj. No.



100 50 0 100

GRAPHIC SCALE IN FEET

REVISIONS

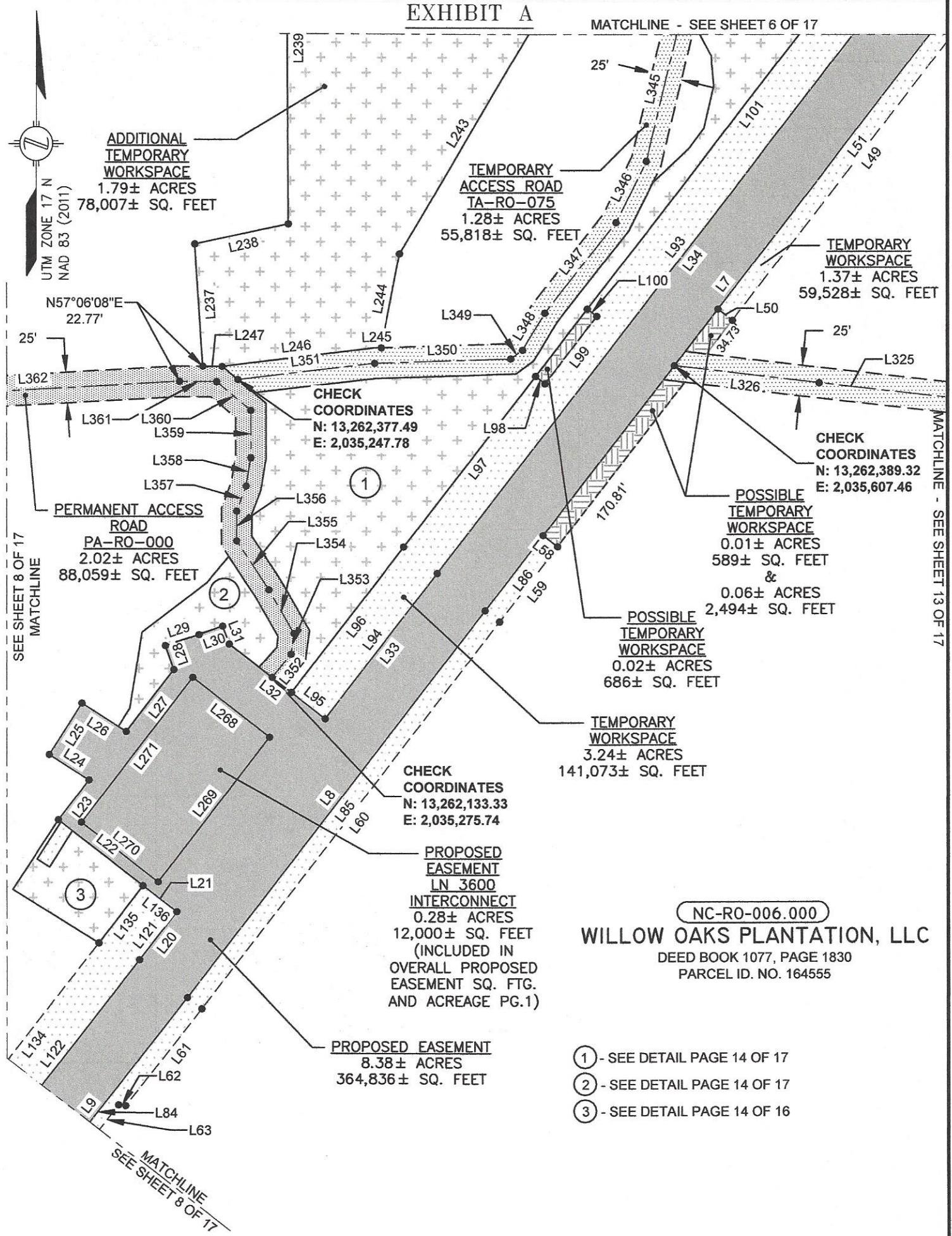
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2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK

No.	Date	Rev By	Description	Checked
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SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A

MATCHLINE - SEE SHEET 6 OF 17



NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

- (1) - SEE DETAIL PAGE 14 OF 17
- (2) - SEE DETAIL PAGE 14 OF 17
- (3) - SEE DETAIL PAGE 14 OF 16

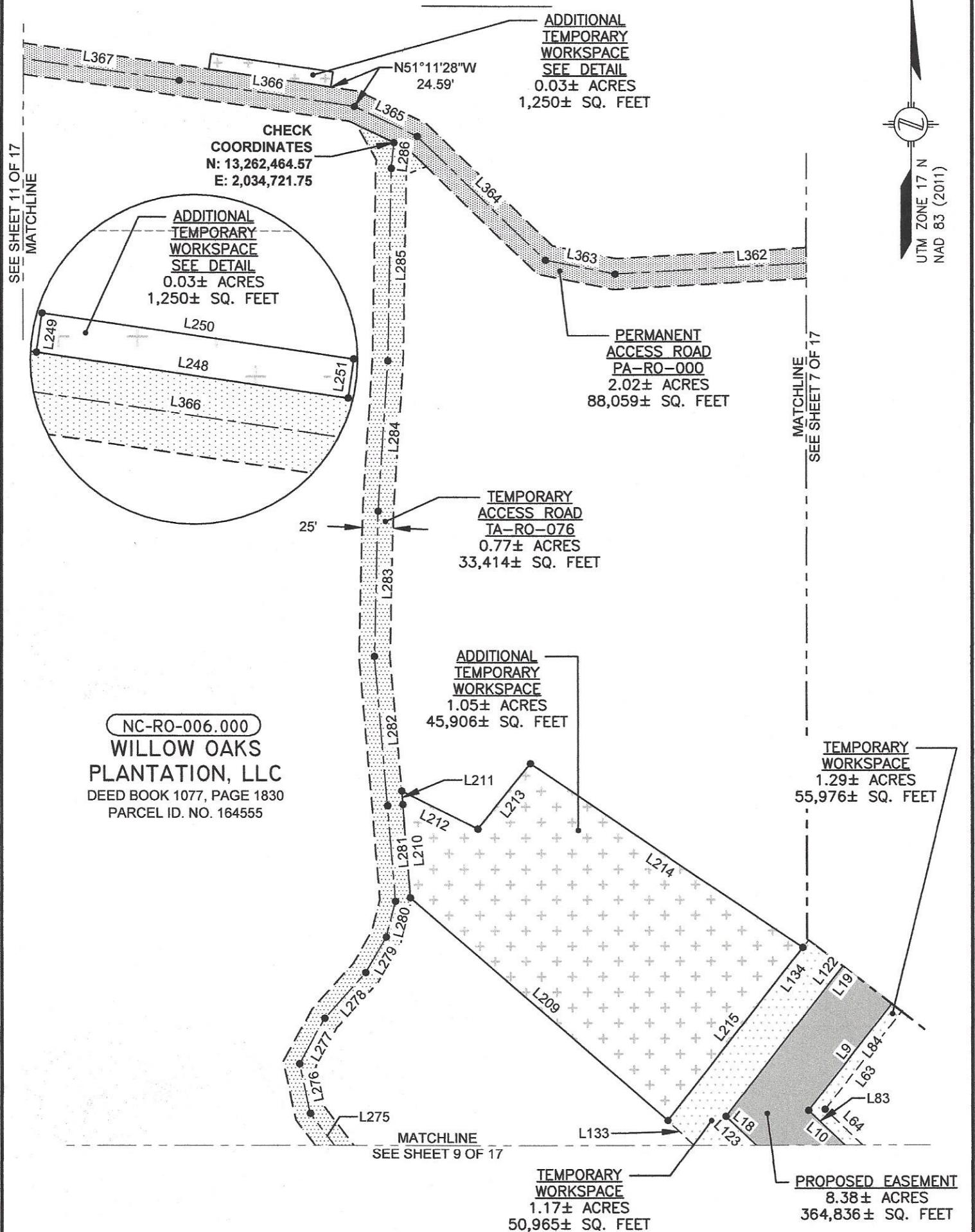
SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA					
 Mountain Valley Pipeline LLC					
Pipeline Easement in Property of Willow Oaks Plantation, LLC					
NC-RO-006.000 DEED BOOK 1077, PAGE 1830					
NC-RO-006.000 Drawn By: JCL Chkd By: Appd By: IRC Proj. No. 300423 Scale: 1"=100' Drawn Date: 10/3/2018 Chkd Date: DD Appd Date: TWK Sheet: 7 OF 17 MVP Proj. No. 100 50 0 100					
GRAPHIC SCALE IN FEET					
REVISIONS					
1 5/6/2020 GENERAL REVISIONS 2 6/16/2020 ACCESS ROAD NAME TWK 3 9/5/2020 MSF REVISED EASEMENT AND AR'S TWK No. Date Rev By Description Checked					

LAND SURVEYOR'S CERTIFICATION
 I, Thomas Warner Kimmel, Professional Land Surveyor, do hereby certify that the foregoing survey was made under my direction and supervision, and that the same is a true and accurate representation of the features surveyed. I further certify that the survey was made in accordance with the North Carolina Professional Land Surveyor Act and the Rules and Regulations thereunder, and that the survey was made in a professional manner.

NOTES AND VICINITY MAP
 SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A



LEGEND

- (NGS MONUMENT
- (OPIP EXISTING IRON PIPE OR PIN
- (OIPS IRON PIN SET
- (CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE



EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

Mountain Valley PIPELINE LLC

Pipeline Easement in Property of
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By:	JCL	Chk'd By:	Appd By:	IRC Proj. No.:	Scale:
Drawn Date:	10/3/2018			300423	1"=100'
				Sheet:	MVP Proj. No.
				8 OF 17	

100 50 0 100
GRAPHIC SCALE IN FEET

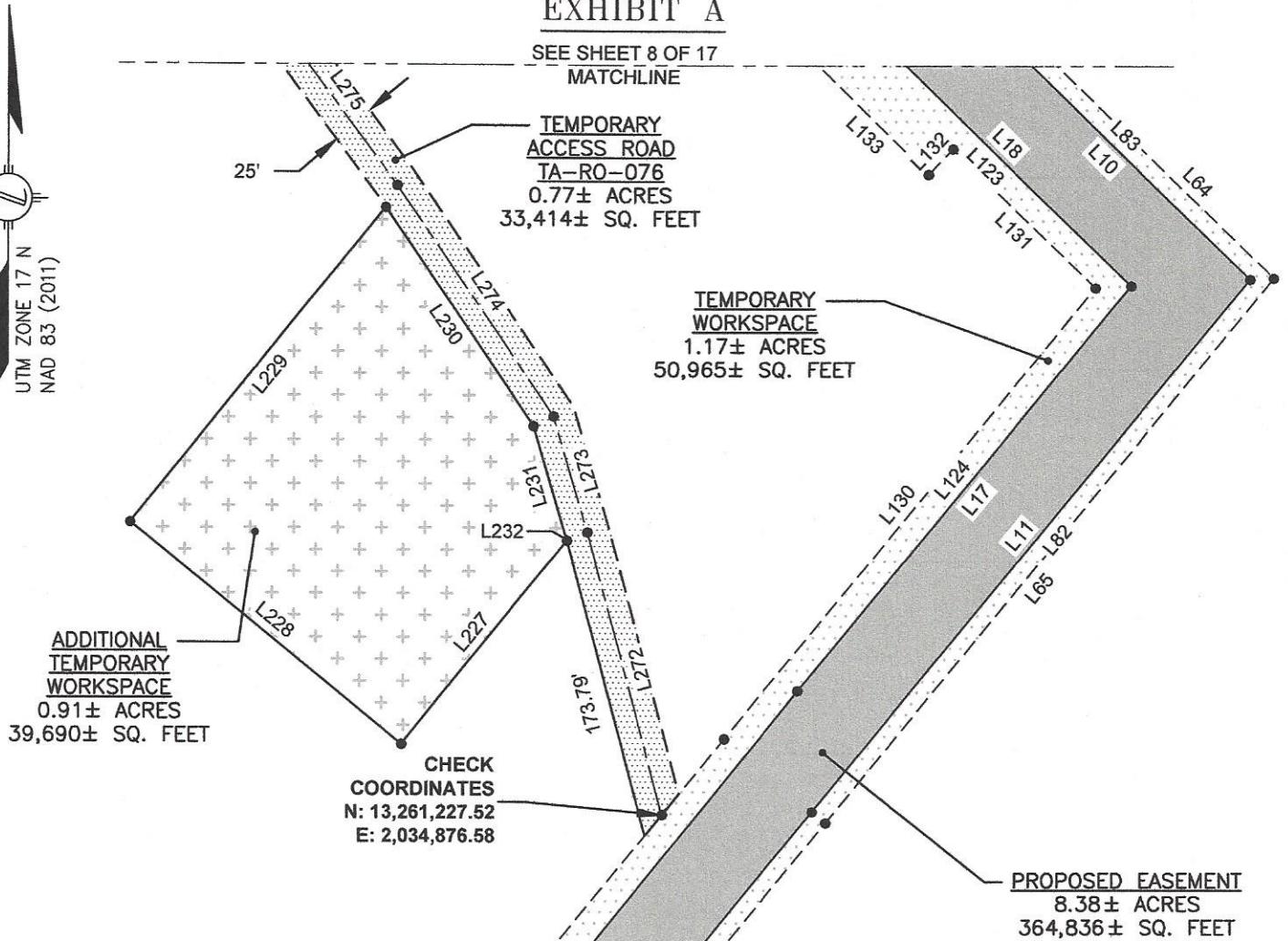
REVISIONS

1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

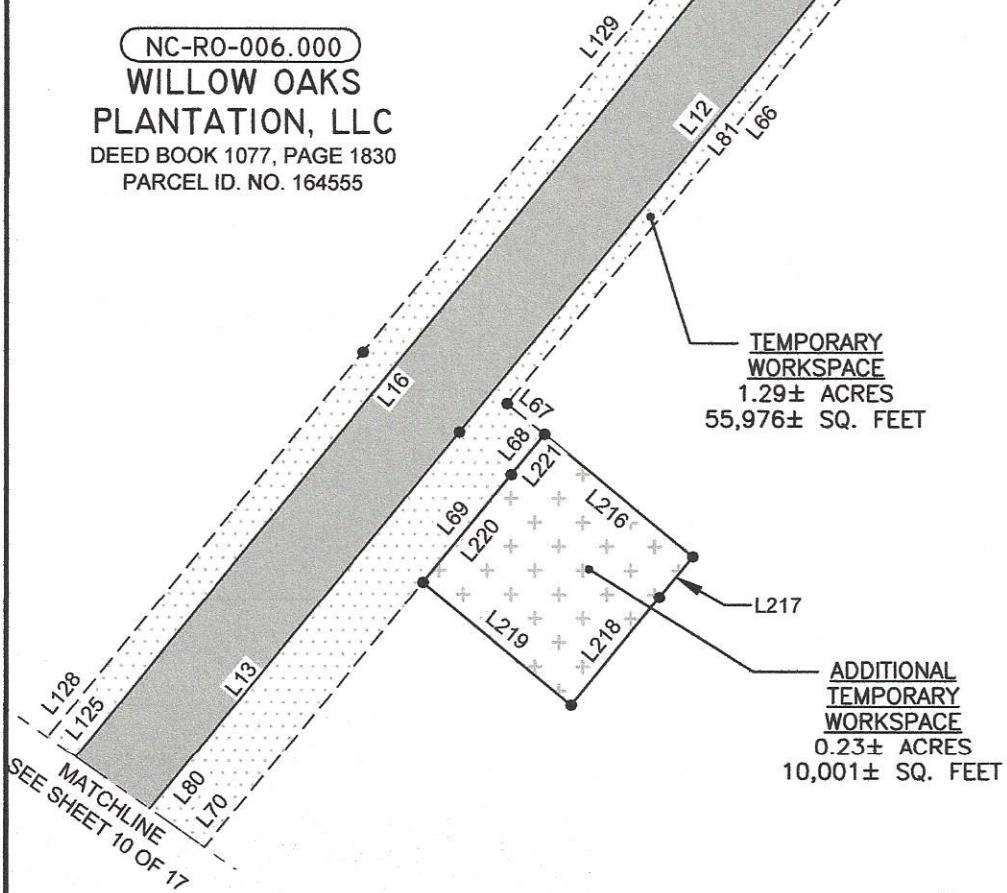
SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A

SEE SHEET 8 OF 17
MATCHLINE



NC-RO-006.000
WILLOW OAKS
PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555



LEGEND

- (NGS MONUMENT
- (EIP EXISTING IRON PIPE OR PIN
- (OIPS IRON PIN SET
- (CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



Pipeline Easement in Property of
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
Deed Book 1077, Page 1830

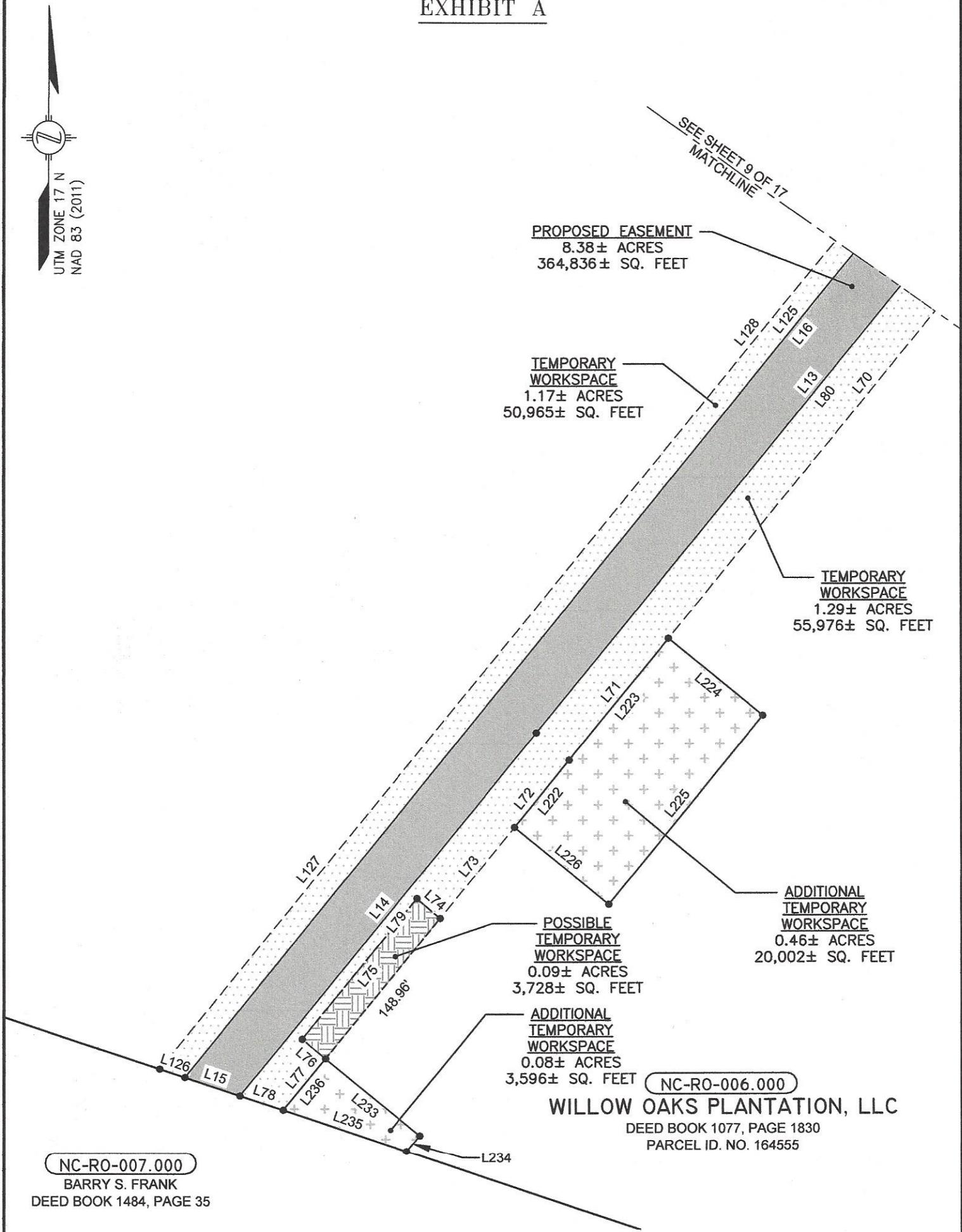
NC-RO-006.000

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Drawn Date: 10/3/2018	DD		Sheet:	MVP Proj. No. 9 OF 17
100 50 0 100				
GRAPHIC SCALE IN FEET				
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	
No.	Date	Rev By	Description	Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

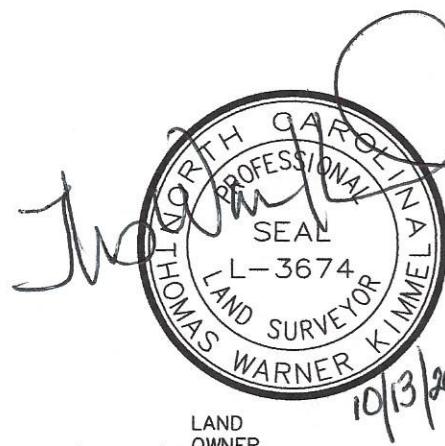


EXHIBIT A



LEGEND

- (◎) NGS MONUMENT
- (○EIP) EXISTING IRON PIPE OR PIN
- (OIPS) IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- [PERMANENT ACCESS ROAD]
- [TEMPORARY ACCESS ROAD]
- [PERMANENT EASEMENT]
- [TEMPORARY WORKSPACE]
- [+ + +] ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- [T T T] POSSIBLE TEMPORARY WORKSPACE



SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

Mountain Valley
PIPELINE LLC

Pipeline Easement in Property of
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By:	Chkd By:	Appd By:	IRC Proj. No.:	Scale:
JCL			300423	1"=100'

Drawn Date:	DD	Sheet:	MVP Proj. No.
10/3/2018		10 OF 17	

100	50	0	100
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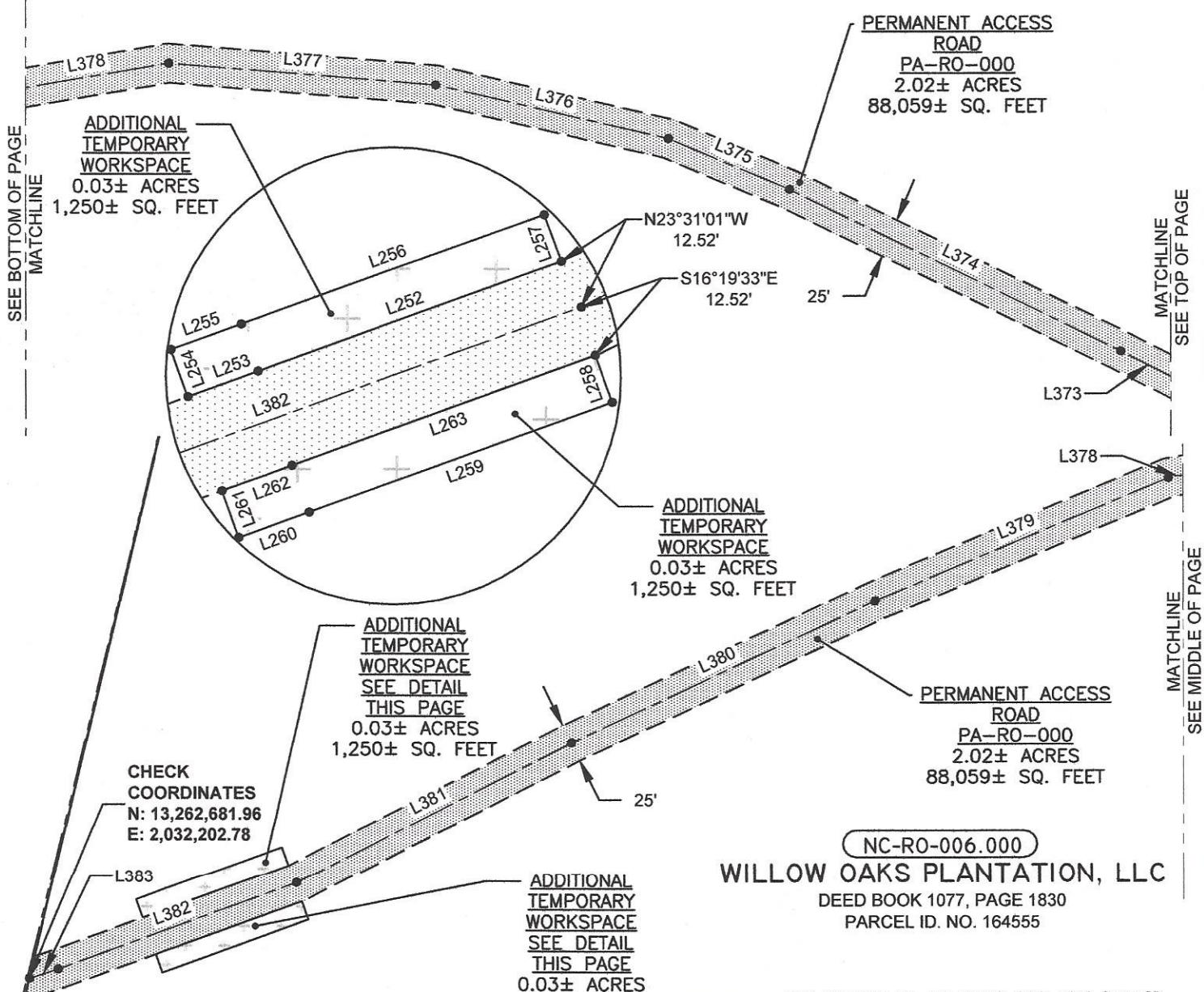
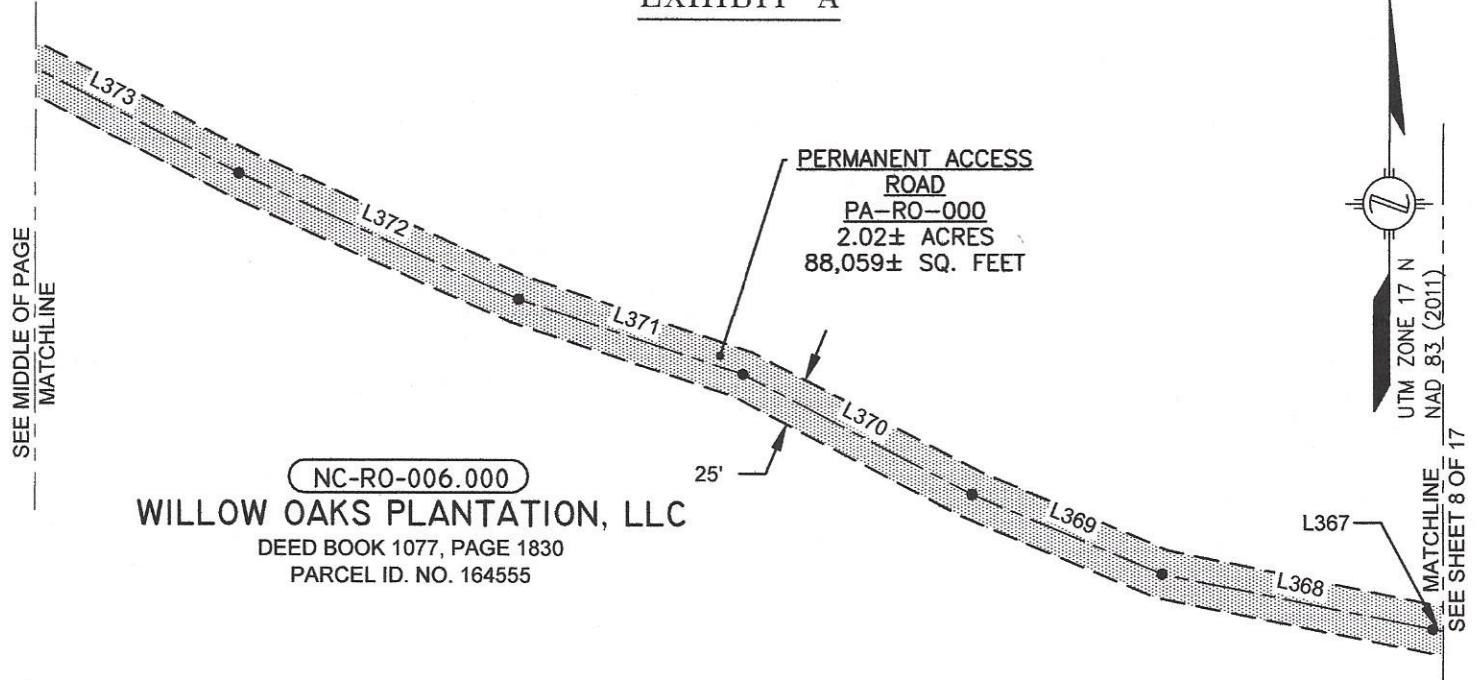
GRAPHIC SCALE IN FEET

R E V I S I O N S

1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A



LEGEND

- (A) NGS MONUMENT
- (O) EIP EXISTING IRON PIPE OR PIN
- (O) IIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.



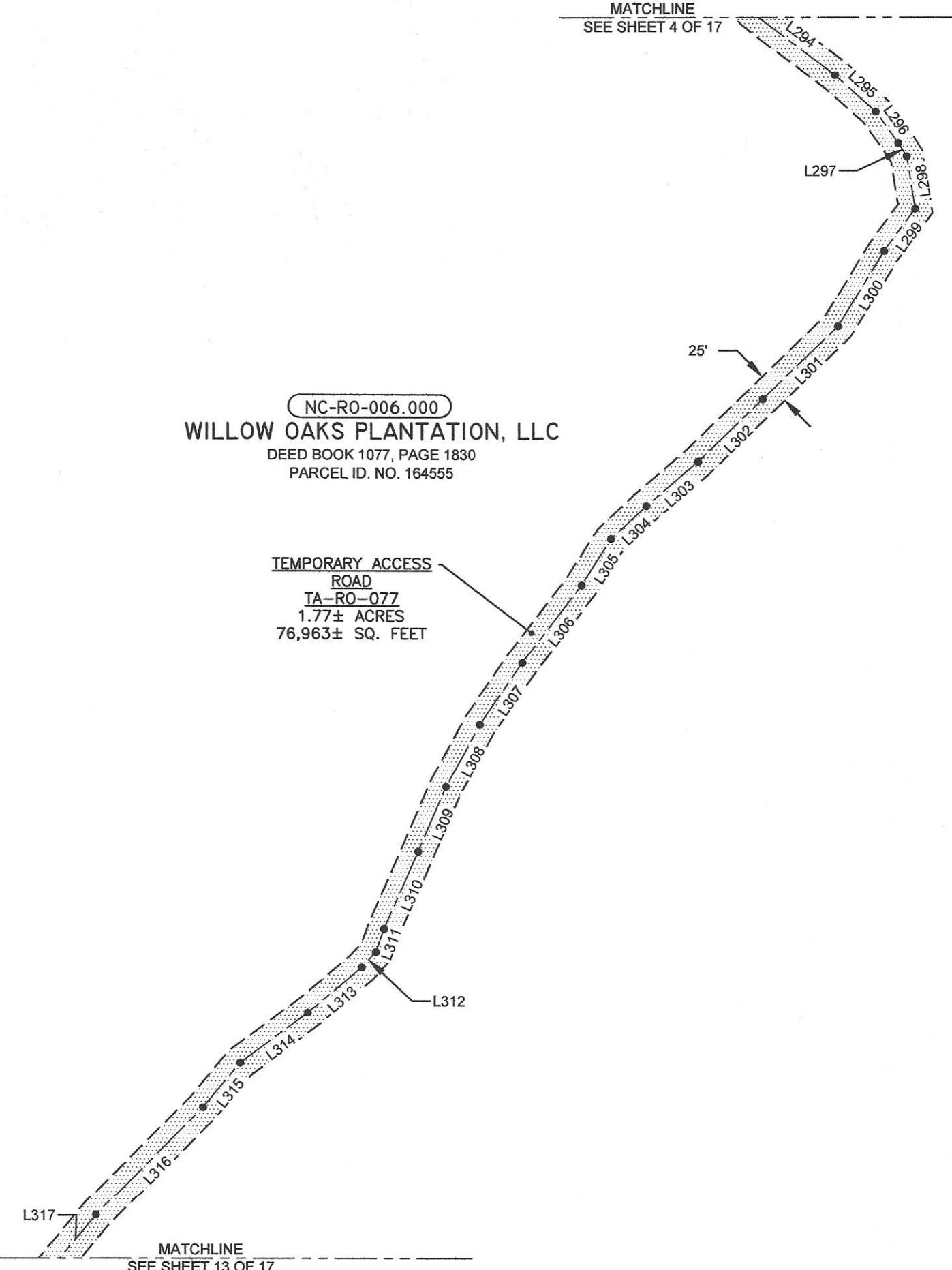
LAND OWNER INITIALS: _____

DATE: _____

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA					
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC					
NC-RO-006.000 DEED BOOK 1077, PAGE 1830					
NC-RO-006.000					
Drawn By:	Chkd By:	Appd By:	IRC Proj. No.	Scale:	
JCL			300423	1"=100'	MVP Proj. No.
Drawn Date:			Sheet:		
10/3/2018	DD	TWK	11 OF 17		
GRAPHIC SCALE IN FEET					
REVISIONS					
1	5/6/2020		GENERAL REVISIONS		
2	6/16/2020	DKD	ACCESS ROAD NAME		
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S		
No.	Date	Rev By	Description		
			Checked		

EXHIBIT A

MATCHLINE
SEE SHEET 4 OF 17



LEGEND

- (◎) NGS MONUMENT
- (○) EIP EXISTING IRON PIPE OR PIN
- (○) OIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- [Dotted Pattern] PERMANENT ACCESS ROAD
- [Dashed Pattern] TEMPORARY ACCESS ROAD
- [Solid Gray] PERMANENT EASEMENT
- [Hatched Pattern] TEMPORARY WORKSPACE
- [Crosses Pattern] ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- [Hatched Pattern] POSSIBLE TEMPORARY WORKSPACE

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

**EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA**

 Mountain Valley
PIPELINE LLC

PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

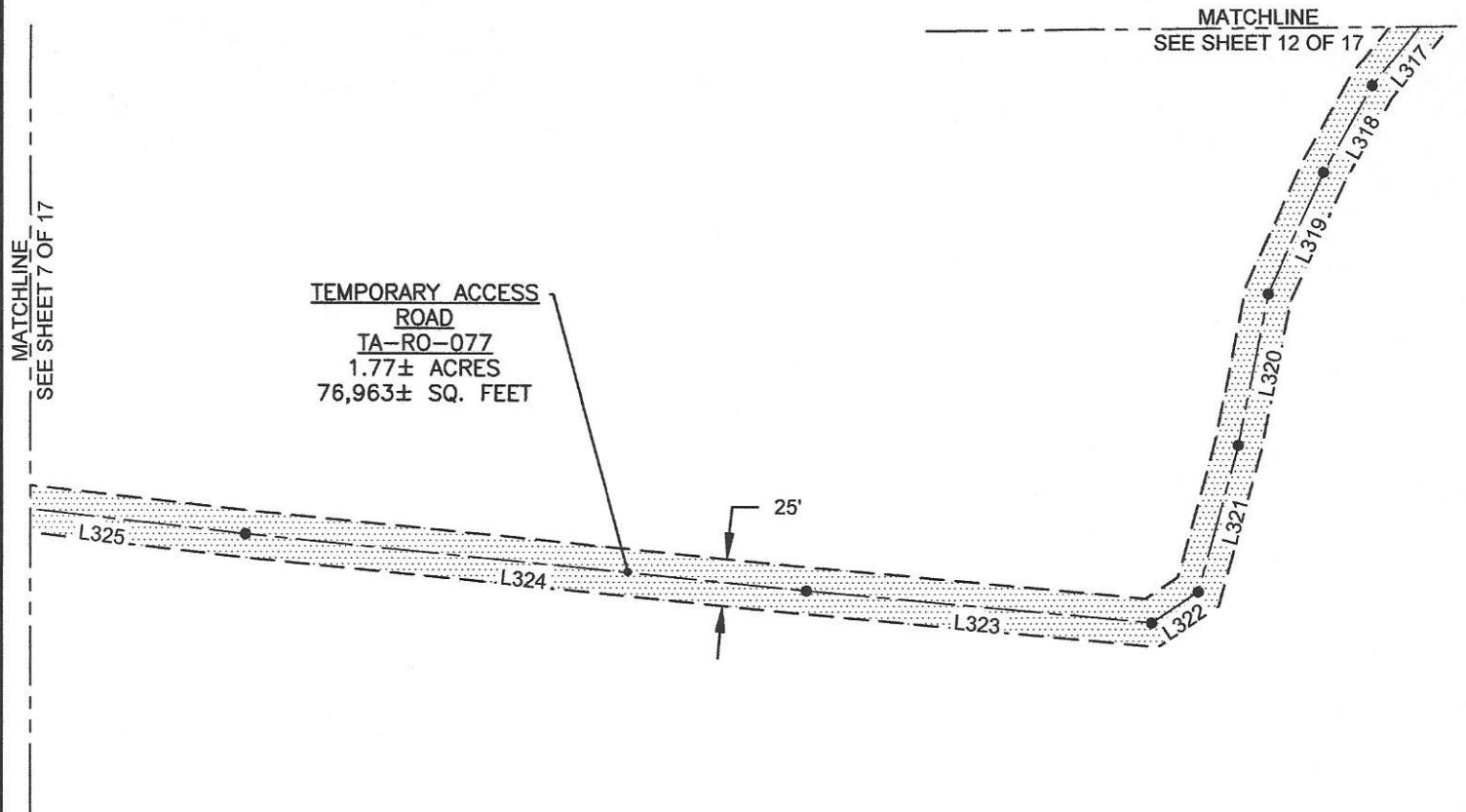
Drawn By:	Chk'd By:	Appd By:	IRCS Proj. No.:	Scale:
JCL			300423	1"=100'
Drawn Date:				MVP Proj. No.
10/3/2018	DD	TWK	Sheet: 12 OF 17	

100 50 0 100
GRAPHIC SCALE IN FEET

REVISIONS

No.	Date	Rev By	Description	Checked
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK

EXHIBIT A



NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

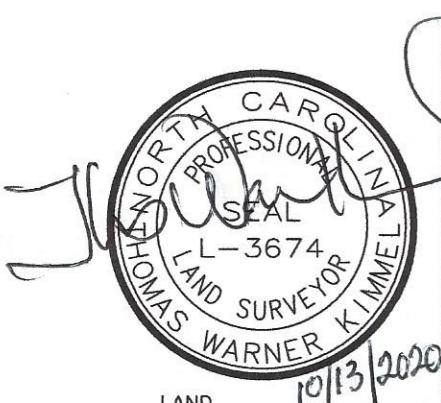
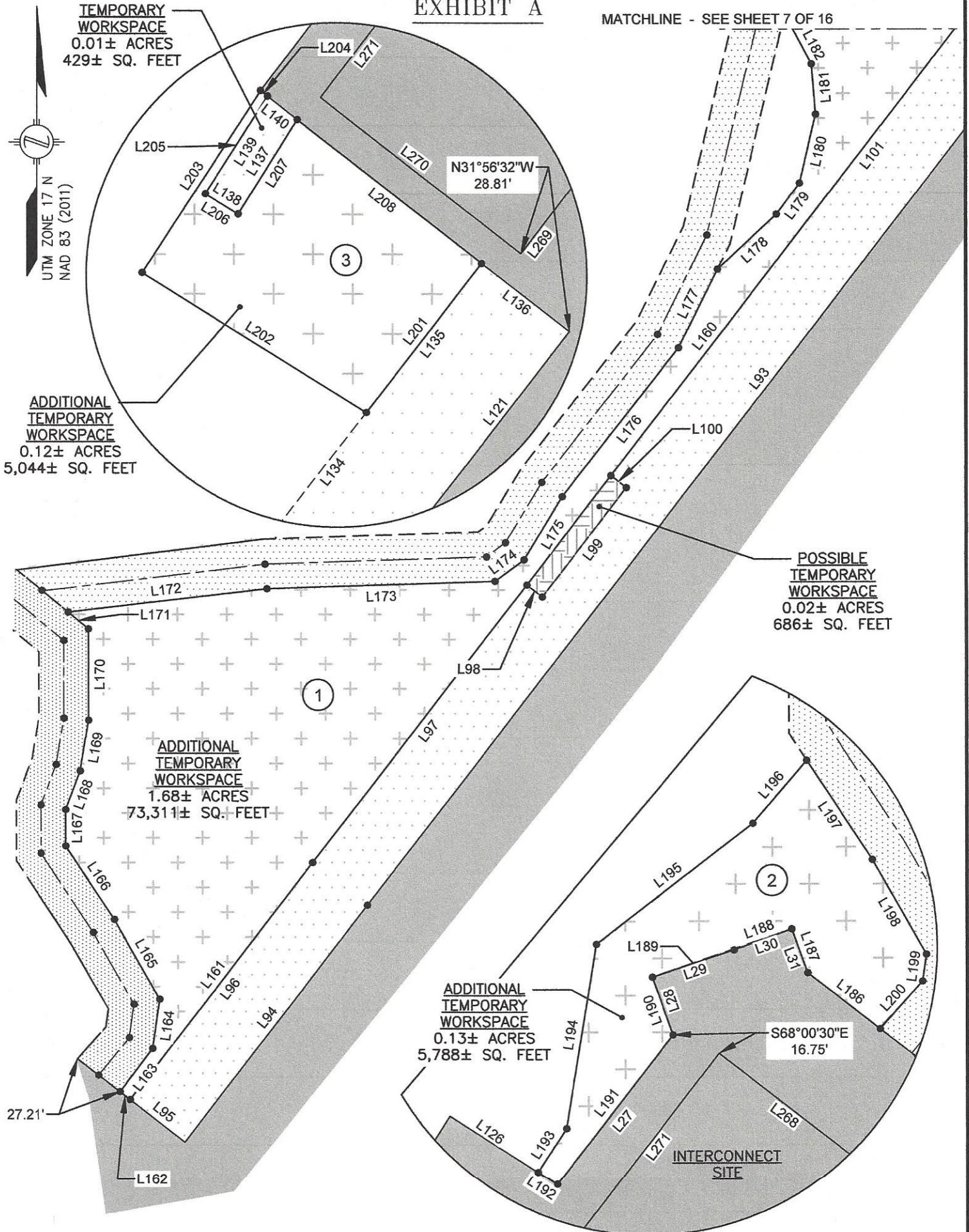
SEE SHEETS 15-17 OF 17 FOR LINE TABLES.																																																					
LEGEND NGS MONUMENT EXISTING IRON PIPE OR PIN IRON PIN SET COMPUTED POINT LINE NOT TO SCALE PERMANENT ACCESS ROAD TEMPORARY ACCESS ROAD PERMANENT EASEMENT TEMPORARY WORKSPACE ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.) POSSIBLE TEMPORARY WORKSPACE																																																					
 <div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <p>LAND SURVEYOR THOMAS WARNER KINMELA PROFESSIONAL C. 2018 L-3674</p> <p>10/13/2020</p> <p>LAND OWNER INITIALS: _____</p> <p>DATE: _____</p> </div> <div style="flex: 1;"> <p>EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA</p> <p> Mountain Valley PIPELINE LLC</p> <p>Pipeline Easement in Property of WILLOW OAKS PLANTATION, LLC NC-RO-006.000 Deed Book 1077, Page 1830</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Drawn By:</td> <td style="width: 25%;">Chkd By:</td> <td style="width: 25%;">Appd By:</td> <td style="width: 25%;">IRCS Proj. No.:</td> </tr> <tr> <td>JCL</td> <td></td> <td></td> <td>300423</td> </tr> <tr> <td colspan="2">Drawn Date: 10/3/2018</td> <td>DD</td> <td>Scale: 1"=100' Sheet: 13 OF 17 MVP Proj. No.</td> </tr> <tr> <td colspan="2"></td> <td>TWK</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">100 50 0 100</td> </tr> <tr> <td colspan="4" style="text-align: center;">GRAPHIC SCALE IN FEET</td> </tr> <tr> <td colspan="4" style="text-align: center;">REVISIONS</td> </tr> <tr> <td>1</td> <td>5/6/2020</td> <td></td> <td>GENERAL REVISIONS</td> </tr> <tr> <td>2</td> <td>6/16/2020</td> <td>DKD</td> <td>ACCESS ROAD NAME</td> </tr> <tr> <td>3</td> <td>9/5/2020</td> <td>MSF</td> <td>REVISED EASEMENT AND AR'S</td> </tr> <tr> <td>No.</td> <td>Date</td> <td>Rev By</td> <td>Description</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Checked</td> </tr> </table> </div> </div>						Drawn By:	Chkd By:	Appd By:	IRCS Proj. No.:	JCL			300423	Drawn Date: 10/3/2018		DD	Scale: 1"=100' Sheet: 13 OF 17 MVP Proj. No.			TWK				100 50 0 100		GRAPHIC SCALE IN FEET				REVISIONS				1	5/6/2020		GENERAL REVISIONS	2	6/16/2020	DKD	ACCESS ROAD NAME	3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	No.	Date	Rev By	Description				Checked
Drawn By:	Chkd By:	Appd By:	IRCS Proj. No.:																																																		
JCL			300423																																																		
Drawn Date: 10/3/2018		DD	Scale: 1"=100' Sheet: 13 OF 17 MVP Proj. No.																																																		
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No.	Date	Rev By	Description																																																		
			Checked																																																		
SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.																																																					

EXHIBIT A

MATCHLINE - SEE SHEET 7 OF 16



SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

LEGEND

- | | |
|--|-----------------------|
| | NGS MONUMENT |
| | EXISTING IRON PIPE OR |
| | OIPS IRON PIN SET |
| | • CP COMPUTED POINT |
| | --- LINE NOT TO SCALE |
| | PERMANENT ACCESS R |
| | TEMPORARY ACCESS R |
| | PERMANENT EASEMENT |
| | TEMPORARY WORKSPACE |
| | ADDITIONAL TEMPORAR |
| | POSSIBLE TEMPORARY |



SEE SHEETS 13-17 OF 17 FOR LINE TABLES.				
EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
 Mountain Valley PIPELINE LLC				
Pipeline Easement in Property of Willow Oaks Plantation, LLC				
NC-R0-006.000 Deed Book 1077, Page 1830				
NC-R0-006.000				
Drawn By:	JCL	Chkd By:	Appd By:	TRC Proj. No. 300423
Drawn Date:	10/3/2018			Scale: MVP Proj. No. Sheet: 14 OF 17
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A

PROPOSED EASEMENT		
LINE TABLE		
LINE	BEARING	DISTANCE
L1	S37°08'30"W	199.69'
L2	S35°13'22"W	392.09'
L3	S39°31'00"W	824.10'
L4	S35°38'18"W	589.68'
L5	S37°41'16"W	686.96'
L6	S37°44'19"W	932.77'
L7	S37°49'35"W	663.59'
L8	S37°44'50"W	401.40'
L9	S38°07'44"W	239.90'
L10	S45°55'10"E	215.60'
L11	S39°33'11"W	393.09'
L12	S39°27'25"W	410.24'
L13	S39°19'29"W	728.05'
L14	S39°18'37"W	385.05'
L15	N71°32'38"W	47.73'
L16	N39°10'03"E	1,588.20'
L17	N39°33'11"E	299.23'
L18	N45°55'09"W	214.46'
L19	N38°07'44"E	284.79'
L20	N37°44'50"E	50.05'
L21	N52°15'10"W	35.00'
L22	N52°14'11"W	88.30'
L23	N37°48'32"E	41.01'
L24	N57°24'39"W	38.68'
L25	N32°35'21"E	50.00'
L26	S57°24'39"E	43.25'
L27	N37°48'32"E	64.21'
L28	N19°43'32"W	20.84'
L29	N71°51'40"E	29.18'
L30	N70°16'29"E	20.83'
L31	S20°06'46"E	15.75'
L32	S52°15'09"E	99.80'
L33	N37°44'50"E	151.23'
L34	N37°49'35"E	663.59'
L35	N37°44'19"E	932.69'
L36	N37°41'16"E	683.52'
L37	N35°39'55"E	595.79'
L38	N39°31'00"E	821.14'
L39	N35°13'22"E	391.05'
L40	N37°08'30"E	251.98'
L41	S07°02'10"E	71.75'

TEMPORARY WORKSPACE								
LINE TABLE			LINE TABLE			LINE TABLE		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L42	S07°02'10"E	21.52'	L77	S39°18'37"W	55.01'	L112	N87°56'27"E	33.42'
L43	S37°08'30"W	184.00'	L78	N71°32'38"W	37.45'	L113	N39°31'00"E	370.58'
L44	S35°13'22"W	392.40'	L79	N39°18'37"E	385.05'	L114	N06°41'10"W	34.64'
L45	S39°31'00"W	824.15'	L80	N39°19'29"E	728.05'	L115	N39°31'00"E	99.64'
L46	S35°38'18"W	589.44'	L81	N39°27'25"E	410.24'	L116	N35°13'22"E	390.32'
L47	S37°41'16"W	687.23'	L82	N39°33'11"E	393.09'	L117	N37°08'30"E	161.04'
L48	S37°44'19"W	932.80'	L83	N45°55'10"W	215.60'	L118	S52°51'29"E	25.00'
L49	S37°49'35"W	350.93'	L84	N38°07'44"E	239.90'	L119	N37°08'30"E	101.82'
L50	N52°10'25"W	15.00'	L85	N37°44'50"E	401.40'	L120	S07°02'10"E	14.35'
L51	N37°49'35"E	350.92'	L86	N37°49'35"E	77.94'	L121	S37°44'50"W	50.05'
L52	N37°44'19"E	932.77'	L87	S37°08'30"W	251.98'	L122	S38°07'44"W	284.79'
L53	N37°41'16"E	686.96'	L88	S35°13'22"W	391.05'	L123	S45°55'09"E	214.46'
L54	N35°38'18"E	589.68'	L89	S39°31'00"W	821.14'	L124	S39°33'11"W	299.23'
L55	N39°31'00"E	824.10'	L90	S35°39'55"W	595.79'	L125	S39°10'03"W	1,588.20'
L56	N35°13'22"E	392.09'	L91	S37°41'16"W	683.52'	L126	N71°32'38"W	21.83'
L57	N37°08'30"E	199.69'	L92	S37°44'19"W	932.69'	L127	N39°18'37"E	409.82'
L58	S52°10'25"E	15.00'	L93	S37°49'35"W	663.59'	L128	N39°19'29"E	728.12'
L59	S37°49'35"W	77.93'	L94	S37°44'50"W	151.23'	L129	N39°27'25"E	410.37'
L60	S37°44'50"W	401.44'	L95	N52°15'09"W	35.00'	L130	N39°33'11"E	333.09'
L61	S38°07'44"W	101.62'	L96	N37°44'50"E	151.25'	L131	N45°55'09"W	113.63'
L62	N84°30'38"W	5.94'	L97	N37°49'35"E	177.38'	L132	S44°04'50"W	20.00'
L63	S38°07'44"W	126.11'	L98	S52°10'25"E	9.86'	L133	N45°55'09"W	118.51'
L64	S45°55'10"E	215.83'	L99	N37°49'35"E	69.53'	L134	N38°07'44"E	306.61'
L65	S39°33'11"W	402.32'	L100	N52°10'25"W	9.86'	L135	N37°48'32"E	59.53'
L66	S39°27'25"W	383.04'	L101	N37°49'35"E	416.68'	L136	S52°15'10"E	35.00'
L67	S51°08'52"E	25.00'	L102	N37°44'19"E	238.21'	L137	S32°05'45"W	35.13'
L68	S39°27'25"W	27.42'	L103	S52°15'41"E	25.00'	L138	N58°23'34"W	12.18'
L69	S39°19'29"W	72.61'	L104	N37°44'19"E	132.04'	L139	N32°39'56"E	36.40'
L70	S39°19'29"W	526.20'	L105	N52°15'41"W	25.00'	L140	S52°14'11"E	11.87'
L71	S39°19'29"W	129.19'	L106	N37°44'19"E	453.82'			
L72	S39°18'37"W	70.84'	L107	N37°44'19"E	108.60'			
L73	S39°18'37"W	96.91'	L108	N37°41'16"E	299.20'			
L74	N49°17'59"W	25.01'	L109	N37°41'16"E	380.11'			
L75	S39°18'37"W	149.25'	L110	N35°42'07"E	603.78'			
L76	S49°58'21"E	25.00'	L111	N39°31'00"E	300.76'			

SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

 Mountain Valley
PIPELINE LLC

PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

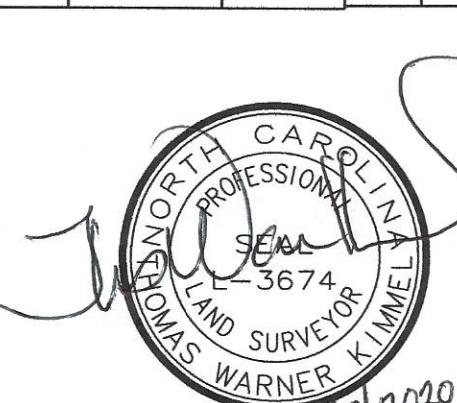
NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By:	Chkd By:	Appd By:	IRC Proj. No.:	Scaler:
JCL			300423	N.T.S.
Drawn Date:				
10/3/2018	DD	TWK		MVP Proj. No.
			15 OF 17	

REVISIONS

1	5/6/2020		GENERAL REVISIONS
2	6/16/2020	DKD	ACCESS ROAD NAME
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S
No.	Date	Rev By	Description
			Checked



LAND OWNER INITIALS: _____

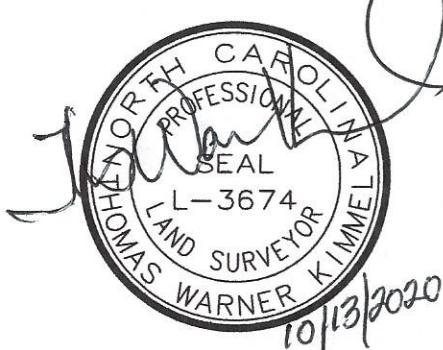
DATE: _____

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

EXHIBIT A

ADDITIONAL TEMPORARY WORKSPACE											
LINE TABLE			LINE TABLE			LINE TABLE			LINE TABLE		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L141	S37°08'30"W	67.41'	L176	N38°10'37"E	95.52'	L211	N04°53'22"W	10.83'	L246	S83°00'23"W	125.58'
L142	S35°13'22"W	390.32'	L177	N26°40'06"E	44.22'	L212	S63°52'35"E	68.83'	L247	N89°36'27"W	16.08'
L143	S39°31'00"W	99.64'	L178	N47°14'17"E	40.68'	L213	N39°07'26"E	67.81'	L248	N81°45'03"W	100.00'
L144	N06°41'10"W	138.54'	L179	N36°47'34"E	19.55'	L214	S55°58'47"E	266.11'	L249	N08°14'56"E	12.50'
L145	N35°13'22"E	388.25'	L180	N13°18'03"E	35.73'	L215	S38°07'44"W	177.43'	L250	S81°45'03"E	100.00'
L146	N37°08'30"E	69.08'	L181	N04°48'14"W	25.17'	L216	S50°39'35"E	100.00'	L251	S08°14'56"W	12.50'
L147	S52°51'29"E	100.00'	L182	N28°28'29"W	28.46'	L217	S39°27'25"W	27.51'	L252	S70°04'43"W	81.22'
L148	S39°31'00"W	300.76'	L183	N09°01'09"E	35.96'	L218	S39°19'29"W	72.49'	L253	S70°04'43"W	18.78'
L149	S79°28'07"W	193.52'	L184	N37°46'04"E	419.00'	L219	N50°40'31"W	100.00'	L254	N19°55'17"W	12.50'
L150	N48°21'15"E	157.95'	L185	S31°56'09"E	95.99'	L220	N39°19'29"E	72.61'	L255	N70°04'43"E	18.78'
L151	N39°31'00"E	204.32'	L186	N52°15'09"W	31.06'	L221	N39°27'25"E	27.42'	L256	N70°04'43"E	81.22'
L152	N87°56'27"E	133.68'	L187	N20°06'46"W	15.75'	L222	N39°18'37"E	70.84'	L257	S19°55'17"E	12.50'
L153	S37°41'16"W	299.20'	L188	S70°16'29"W	20.83'	L223	N39°19'29"E	129.19'	L258	S19°55'17"E	12.50'
L154	S37°44'19"W	108.60'	L189	S71°51'40"W	29.18'	L224	S50°40'31"E	100.00'	L259	S70°04'43"W	81.22'
L155	S86°29'24"W	133.00'	L190	S19°43'32"E	20.84'	L225	S39°19'11"W	200.00'	L260	S70°04'43"W	18.78'
L156	N37°44'19"E	196.26'	L191	S37°48'32"W	64.21'	L226	N50°41'23"W	100.00'	L261	N19°55'17"W	12.50'
L157	N37°41'16"E	206.54'	L192	N57°24'39"W	7.78'	L227	S39°10'02"W	150.00'	L262	N70°04'43"E	18.78'
L158	N84°53'08"E	136.29'	L193	N33°02'56"E	17.75'	L228	N50°49'58"W	200.00'	L263	N70°04'43"E	81.22'
L159	S37°44'19"W	238.21'	L194	N09°20'18"E	63.22'	L229	N39°10'02"E	231.23'	L264	S42°46'43"W	93.71'
L160	S37°49'35"W	663.58'	L195	N52°32'48"E	67.00'	L230	S34°15'53"E	150.41'	L265	N05°22'10"E	41.15'
L161	S37°44'50"W	151.25'	L196	N40°38'18"E	28.09'	L231	S16°23'24"E	66.26'	L266	N42°46'43"E	38.33'
L162	N52°15'09"W	6.53'	L197	S33°24'49"E	40.35'	L232	S14°54'04"E	1.47'	L267	S89°27'23"E	33.77'
L163	N37°13'33"E	27.45'	L198	S29°46'00"E	36.81'	L233	S50°41'23"E	100.00'			
L164	N08°05'06"E	25.24'	L199	S08°05'03"W	9.11'	L234	S39°18'37"W	16.92'			
L165	N29°46'00"W	46.17'	L200	S41°42'53"W	21.69'	L235	N71°32'38"W	107.01'			
L166	N33°24'48"W	44.51'	L201	S37°48'32"W	59.53'	L236	N39°18'37"E	55.01'			
L167	N00°00'02"E	18.33'	L202	N58°08'39"W	83.29'	L237	N03°41'35"W	100.50'			
L168	N20°41'45"E	20.86'	L203	N33°13'29"E	68.32'	L238	N77°44'56"E	78.84'			
L169	N09°26'59"E	25.80'	L204	S52°14'28"E	2.77'	L239	N00°23'04"W	323.96'			
L170	N00°01'06"E	45.98'	L205	S32°39'56"W	36.40'	L240	N88°49'32"E	222.99'			
L171	N50°17'56"W	13.26'	L206	S58°23'34"E	12.18'	L241	S03°11'08"E	56.47'			
L172	N83°18'09"E	101.39'	L207	N32°05'45"E	35.13'	L242	S10°43'11"W	110.33'			
L173	N88°00'58"E	115.66'	L208	S52°14'11"E	73.66'	L243	S30°40'06"W	218.92'			
L174	N53°40'13"E	18.33'	L209	N49°09'03"W	275.59'	L244	S11°06'00"W	78.52'			
L175	N31°23'19"E	37.01'	L210	N04°43'15"W	75.37'	L245	S88°00'58"W	6.45'			

SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.



LAND OWNER INITIALS: _____
DATE: _____

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
 Mountain Valley PIPELINE™ LLC				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.000 DEED BOOK 1077, PAGE 1830				
NC-RO-006.000				
Drawn By: JCL	Chkd By: DD	Appd By: TWK	IRC Proj. No. 300423	Scale: N.T.S.
Drawn Date: 10/3/2018			Sheet: 16 OF 17	MVP Proj. No.
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	
No.	Date	Rev By	Description	Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

EXHIBIT A

INTERCONNECT SITE

LINE TABLE		
LINE	BEARING	DISTANCE
L268	S52°15'10"E	80.00'
L269	S37°44'50"W	150.00'
L270	N52°15'10"W	80.00'
L271	N37°44'50"E	150.00'

TEMPORARY ACCESS ROAD

LINE TABLE		
LINE	BEARING	DISTANCE
L307	S34°47'26"W	57.02'
L308	S28°42'42"W	54.14'
L309	S23°28'18"W	54.05'
L310	S23°57'37"W	64.11'
L311	S20°23'18"W	18.66'
L312	S42°45'16"W	16.07'
L313	S49°47'05"W	53.74'
L314	S53°23'28"W	64.59'
L315	S40°12'19"W	44.33'
L316	S44°57'57"W	116.15'
L317	S39°10'48"W	81.24'
L318	S29°24'37"W	53.21'
L319	S24°29'01"W	71.32'
L320	S11°10'45"W	82.07'
L321	S15°20'24"W	81.01'
L322	S56°20'27"W	29.86'
L323	N84°39'51"W	185.50'
L324	N84°26'38"W	301.59'
L325	N83°30'48"W	220.76'
L326	N83°14'26"W	119.84'
L327	S86°08'05"W	80.66'
L328	S81°26'32"W	131.87'
L329	S86°22'33"W	96.53'
L330	S84°54'10"W	111.87'
L331	S87°43'09"W	100.23'
L332	S83°20'43"W	93.94'
L333	N89°27'23"W	81.59'
L334	S37°25'07"W	17.64'
L335	S03°26'00"E	26.73'
L336	S05°22'10"W	44.31'
L337	S12°15'42"W	101.49'
L338	S09°02'34"W	93.59'
L339	S02°42'03"W	117.89'
L340	S01°47'19"E	95.73'
L341	S00°56'08"E	118.76'

PERMANENT ACCESS ROAD

LINE TABLE		
LINE	BEARING	DISTANCE
L352	N39°25'06"E	24.55'
L353	N08°05'09"E	17.18'
L354	N29°46'01"W	41.49'
L355	N33°24'48"W	47.86'
L356	NORTH	24.36'
L357	N20°41'45"E	21.91'
L358	N09°26'59"E	23.54'
L359	N00°01'06"E	39.08'
L360	N50°17'56"W	36.55'
L361	N89°36'27"W	30.65'
L362	S86°47'21"W	298.86'
L363	N78°37'38"W	57.51'
L364	N46°26'06"W	143.49'
L365	N65°05'42"W	56.52'
L366	N81°45'03"W	143.81'
L367	N82°15'57"W	134.10'
L368	N78°29'14"W	144.02'
L369	N67°24'30"W	107.04'
L370	N62°19'35"W	134.93'
L371	N71°40'29"W	123.27'
L372	N66°15'05"W	159.51'
L373	N63°14'50"W	156.25'
L374	N63°57'36"W	237.33'
L375	N67°21'25"W	84.53'
L376	N77°17'13"W	153.69'
L377	N85°30'18"W	172.55'
L378	S80°21'19"W	104.05'
L379	S67°19'16"W	204.89'
L380	S65°00'19"W	215.81'
L381	S62°53'14"W	198.91'
L382	S70°04'43"W	163.44'
L383	S72°08'36"W	19.47'

SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



Pipeline Easement in Property of
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By:	Chk'd By:	Appd By:	IRG Proj. No.:	Scale:
JCL			300423	N.T.S.

Drawn Date:	DD	Sheet:	MVP Proj. No.
10/3/2018	TWK	17 OF 17	

REVISIONS

1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK

No.	Date	Rev By	Description	Checked
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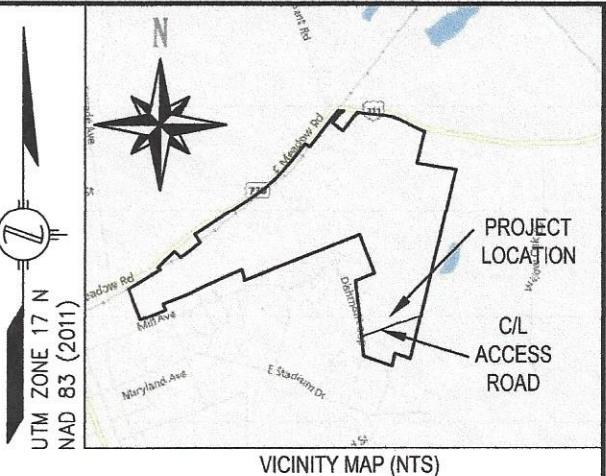
LAND OWNER INITIALS: _____
DATE: _____

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

EXHIBIT A

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 1077, PAGE 1867.
5. PARCEL ID: 165627Z1
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO UTM ZONE 17 N NAD (2011).
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.



NC-RO-006.001.AR
WILLOW OAKS
PLANTATION, LLC

DEED BOOK 1077, PAGE 1867
PARCEL ID. NO. 165627Z1

PERMANENT
ACCESS ROAD
PA-RO-000
0.83± ACRES
36,215± SQ. FEET

POINT OF BEGINNING
N:13,262,681.96
E:2,032,202.78

SEE SHEET 2 OF 2
MATCHLINE

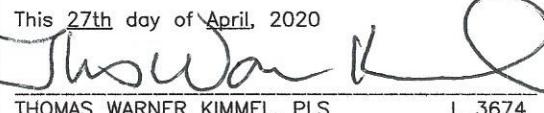
LEGEND

- (◎) NGS MONUMENT
- (○) EXISTING IRON PIPE OR PIN
- (OIPS) IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- [PERMANENT ACCESS ROAD]
- [TEMPORARY ACCESS ROAD]
- [PERMANENT EASEMENT]
- [TEMPORARY WORKSPACE]
- [ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)]
- [POSSIBLE TEMPORARY WORKSPACE]

I, Thomas Warner Kimmel, certify that this plat is of a PERMANENT EASEMENT for a public utility as defined in GS 62-3; that this plat was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in deed book 1077, page 1867); that the ratio of precision as calculated is 1:10,000+; that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks at the Class "A" accuracy classification (95% confidence) using RTK/VRS networks and traditional traverses.

That this plat meets the requirements of G.S. 47-30 section (f)(11)(c).

This 27th day of April, 2020


THOMAS WARNER KIMMEL, PLS L 3674

LAND OWNER INITIALS: _____
DATE: _____

TRC ENGINEERS, INC
2200 LIBERTY AVENUE,
SUITE 100
PITTSBURGH, PA 15222
PH: (724) 749-8572 tkimmel@trcsolutions.com
NC CORPORATE LICENSE No. F-0591



AREA OF PERMANENT ACCESS ROAD: 36,215± 0.83 ACRES

feet rods
CENTERLINE OF EASEMENT: 1,433± 86.87±

SEE SHEET 2 OF 2 FOR LINE TABLES

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



Pipeline Easement in Property of
WILLOW OAKS PLANTATION, LLC

NC-RO-006.001.AR
DEED BOOK 1077, PAGE 1867

NC-RO-006.001.AR

Drawn By:	Chkd By:	Appd By:	IRCS Proj. No.:	Scale:
MSF			300423	1"=100'
Drawn Date:				MVR Proj. No.
04/20/20	DD	TWK	1 OF 2	

100 50 0 100
GRAPHIC SCALE IN FEET

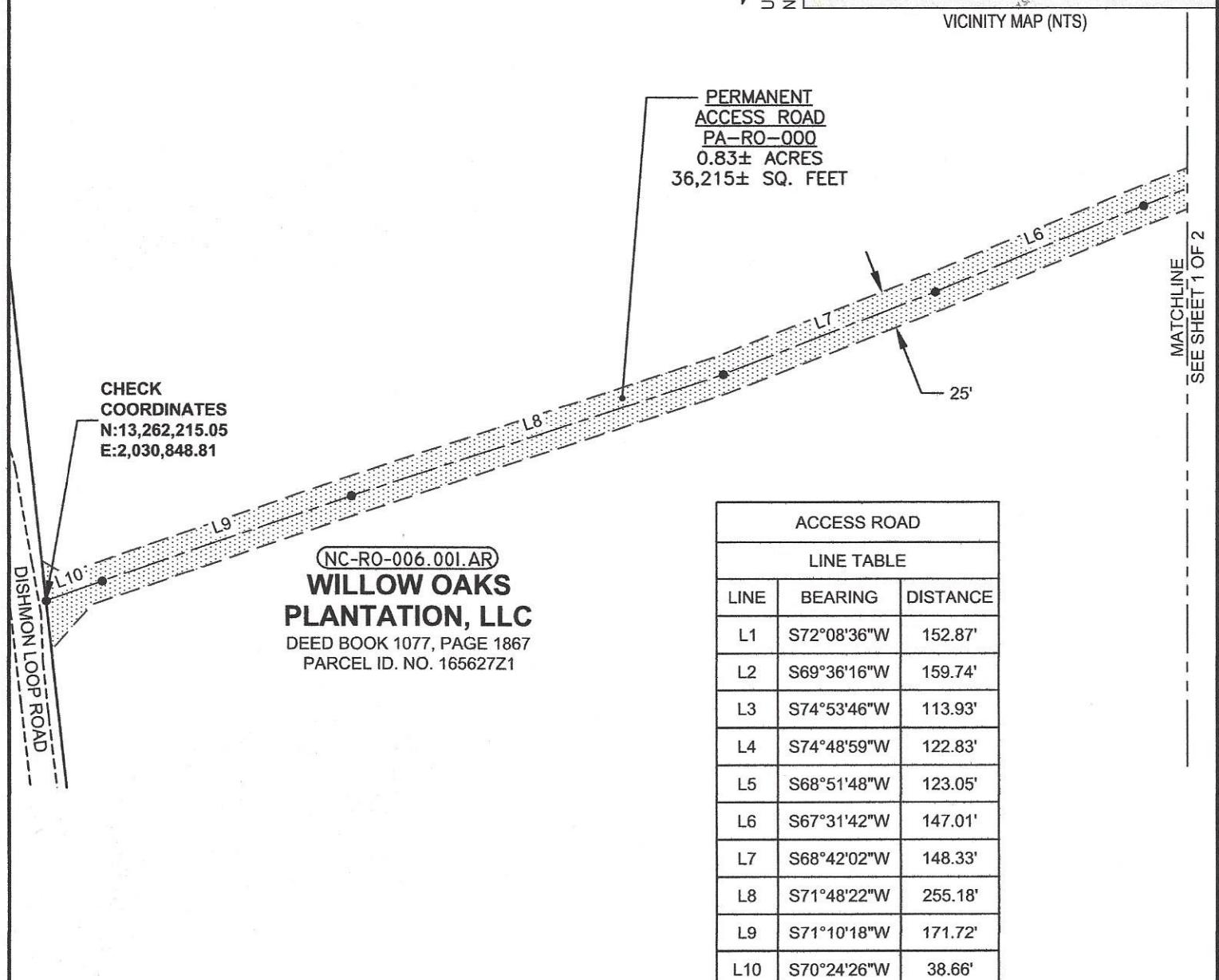
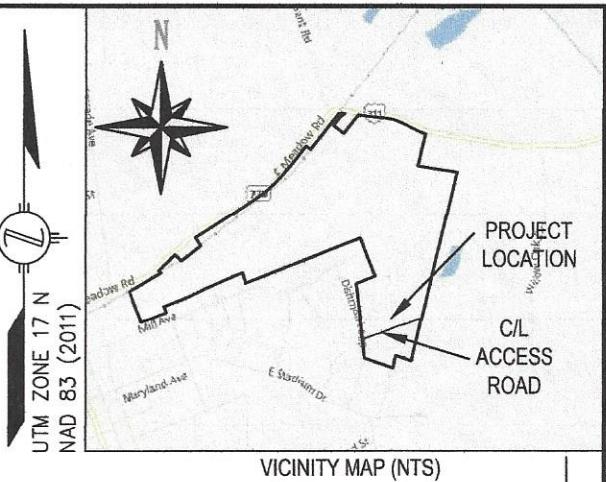
REVISIONS

No.	Date	Rev By	Description	Checked
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EXHIBIT A

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
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9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.



LEGEND

- (A) NGS MONUMENT
- (O/EIP) EXISTING IRON PIPE OR PIN
- (OIPS) IRON PIN SET
- (•CP) COMPUTED POINT
- > LINE NOT TO SCALE
- [Solid Line] PERMANENT ACCESS ROAD
- [Dashed Line] TEMPORARY ACCESS ROAD
- [Solid Line] PERMANENT EASEMENT
- [Dashed Line] TEMPORARY WORKSPACE
- [Crossed-out Box] ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- [Tentative Boundary Box] POSSIBLE TEMPORARY WORKSPACE

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.



LAND OWNER INITIALS: _____
DATE: _____

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.001.AR DEED BOOK 1077, PAGE 1867				
NC-RO-006.001.AR				
Drawn By:	Chk'd By:	App'd By:	IRC Proj. No.:	Scale:
MSF	DD	TWK	300423	1"=100'
Drawn Date:			Sheet:	MVP Proj. No.
04/20/20			2 OF 2	
100 50 0 100 GRAPHIC SCALE IN FEET				
REVISIONS				
No.	Date	Rev By	Description	Checked